

Title (en)
METHOD FOR PRODUCING A HIGH-VOLTAGE ELECTRICAL INSULATOR WITH A MORTAR INCLUDING A SUPERPLASTICIZER AND ELECTRICAL INSULATORS THUS OBTAINED

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES ELEKTRISCHEN HOCHSPANNUNGSISOLATORS MIT MÖRTEL MIT EINEM SUPERWEICHMACHER SOWIE DADURCH ERHALTENEN ELEKTRISCHEN ISOLATOREN

Title (fr)
PROCÉDÉ DE FABRICATION D'UN ISOLATEUR ÉLECTRIQUE HAUTE TENSION AVEC UN MORTIER INCLUANT UN SUPERPLASTIFIANT ET ISOLATEURS ÉLECTRIQUE AINSI OBTENUS

Publication
EP 2683672 A1 20140115 (FR)

Application
EP 11782454 A 20111006

Priority
FR 2011052339 W 20111006

Abstract (en)
[origin: WO2013050665A1] The invention relates to a method for producing a high-voltage electrical insulator (1) including at least one metal insulator element (4, 6) embedded onto a dielectric insulator element (2) via a sealing mortar (5), including at least the following steps: preparing the mortar (5) from aluminous cement and sand mixed at least with water; assembling the dielectric element (2) and metal element (4,6) together, the mortar (5) being placed between the dielectric element (2) and the metal element (4, 6); and vibrating the dielectric element (2) and metal element (4, 6) assembled together so as to distribute the mortar (5) between the dielectric element and the metal element (2, 4, 6). In order to prepare the mortar (5), an active ingredient, which is a polymeric polyglycolmethacrylic acid ester superplasticizer, is added, and the vibration is carried out for a duration of 2 to 20 seconds, preferably 4 to 15 seconds.

IPC 8 full level
C04B 28/06 (2006.01); **C04B 37/02** (2006.01); **C04B 40/00** (2006.01); **H01B 13/14** (2006.01); **H01B 19/00** (2006.01)

CPC (source: EP US)
C04B 28/06 (2013.01 - EP US); **C04B 37/026** (2013.01 - EP US); **C04B 40/0067** (2013.01 - EP US); **H01B 3/14** (2013.01 - EP US); **H01B 17/56** (2013.01 - US); **H01B 19/00** (2013.01 - EP US); **H01B 19/04** (2013.01 - EP US); **H02G 7/05** (2013.01 - US); **C04B 2103/32** (2013.01 - EP US); **C04B 2111/92** (2013.01 - EP US); **C04B 2237/34** (2013.01 - EP US); **C04B 2237/40** (2013.01 - EP US); **Y10T 29/49227** (2015.01 - EP US)

Citation (search report)
See references of WO 2013050665A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2013050665 A1 20130411; BR 112013031385 A2 20161206; BR 112013031385 B1 20201117; CN 103180259 A 20130626; CN 103180259 B 20150218; EP 2683672 A1 20140115; EP 2683672 B1 20170322; ES 2626144 T3 20170724; PL 2683672 T3 20170929; US 2014338954 A1 20141120; US 9263173 B2 20160216

DOCDB simple family (application)
FR 2011052339 W 20111006; BR 112013031385 A 20111006; CN 201180051216 A 20111006; EP 11782454 A 20111006; ES 11782454 T 20111006; PL 11782454 T 20111006; US 201114344540 A 20111006